# *Light Installation Guide (Universal Mount)*

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## LIGHT ARM INSTALLATION

**NOTE**
This light can be installed into 1-3/8 or 1-3/4 in. diameter mounting posts. Make sure post is level before installation.

If installing light arm into a 1 3/8 in. diameter mounting post, do not perform step 1. Go to step 2.

***(1)*** Install bearing sleeve (1, FIgure 1) into mounting post (2).

***(2)*** Route power cord (3) down thru mounting post (2); then insert shaft of fixed arm (4) into mounting post.

***(3)*** Remove screw (5), end cap (6), and bottom cover (7).

***(4)*** Route wire harness (8) thru rotation stop ring (9) and fixed arm (4).

***(5)*** Position tab of rotation stop ring (9) in line with flex arm so that it is facing lighthead; then insert flex arm shaft (10) into fixed arm (4).

***(6)*** Slide retaining ring (11) over wire harness (8) and install onto flex arm shaft (10).

***(7)*** Connect wire harness (8) to wire harness (12).

***(8)*** Install bottom cover (7), end cap (6), and screw (5).

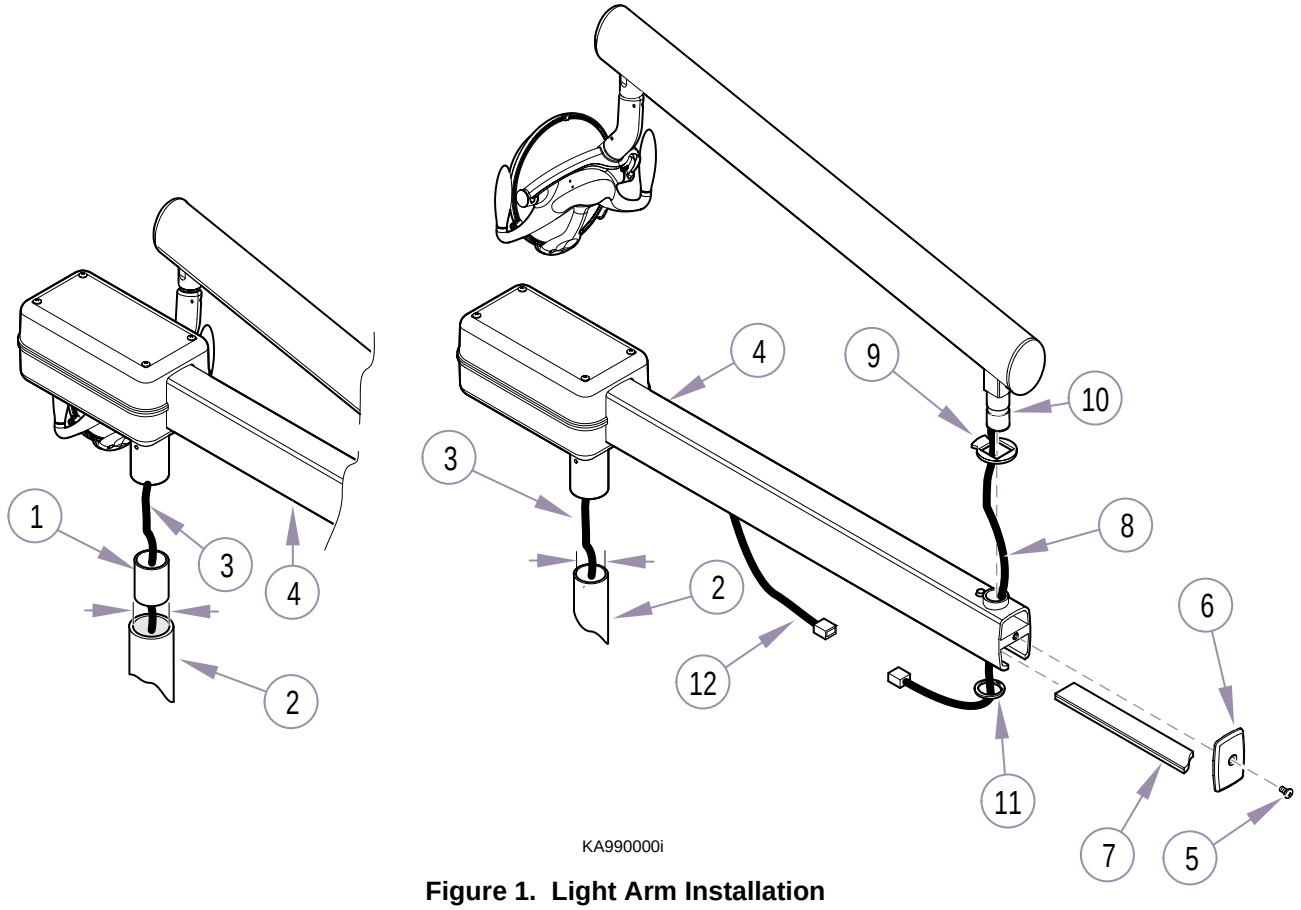


**Figure 1. Light Arm Installation**

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## INSTALLING PLUG TO POWER CORD

**NOTE**
If facility voltage is **230 VAC**, install a properly rated plug according to local codes and regulations; then refer to page 3 to adjust transformer.

***(1)*** Remove screw (1, Figure 2) and three pronged portion (2) of plug.

***(2)*** Loosen two screws (3) and insert power cord (4) into housing (5).

***(3)*** Insert BROWN wire from power cord (4) into hole (A); then tighten GOLD screw (6).

***(4)*** Insert BLUE wire from power cord (4) into hole (B); then tighten SILVER screw (7).

***(5)*** Insert GREEN wire from power cord (4) into hole (C); then tighten GREEN screw (8).

**NOTE**
The three pronged portion (2) of plug may be installed in four different positions. Be sure two tabs on pronged portion align with notches in housing (5).

***(6)*** Rotate three pronged portion (2) of plug to desired position in housing (5); then secure with screw (1).

***(7)*** Tighten two screws (3) so that power cord (4) is secured. Do not overtighten screws.

***(8)*** Plug power cord into properly rated receptacle and check for proper operation.

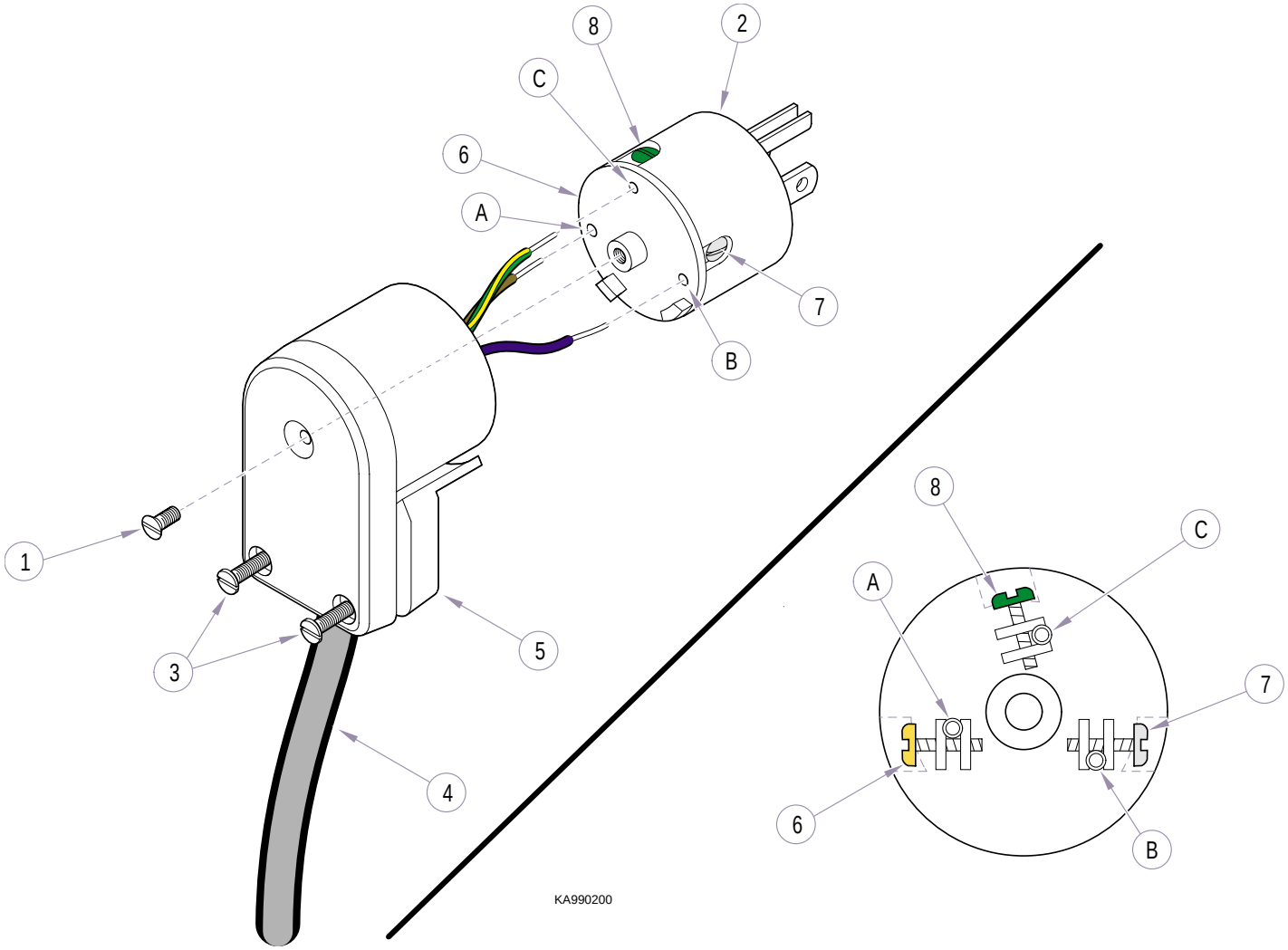



**Figure 2. Installing Plug to Power Cord**

## ADJUSTING TRANSFORMER FOR 230 VAC

**NOTE**
If facility voltage is **230 VAC**, the following procedure must be performed before connecting power to light.

***(1)*** Remove four screws (1, Figure 2) and transformer cover (2).

***(2)*** Disconnect brown electrical lead (3) from ***115V*** tap of transformer and connect to ***230V*** tap.

***(3)*** Install transformer cover (2) and secure with four screws (1).

***(4)*** Plug power cord into properly rated receptacle.

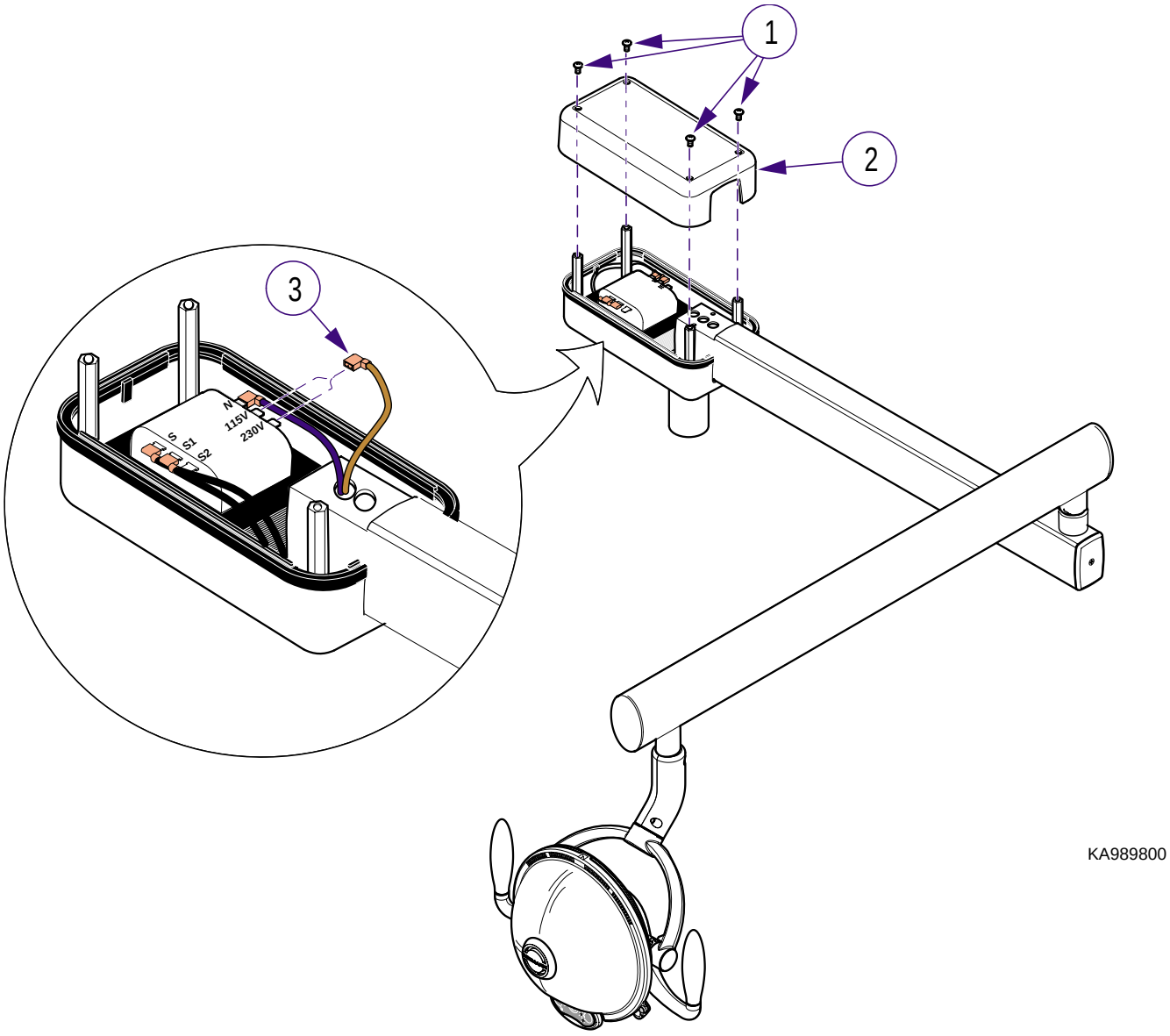
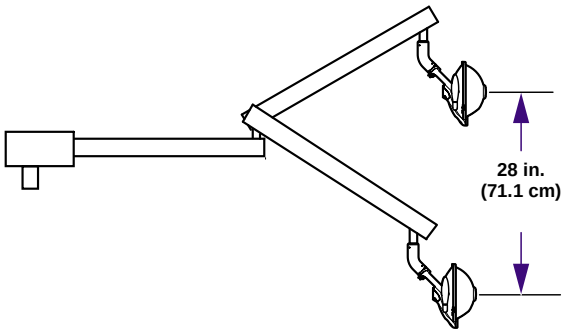
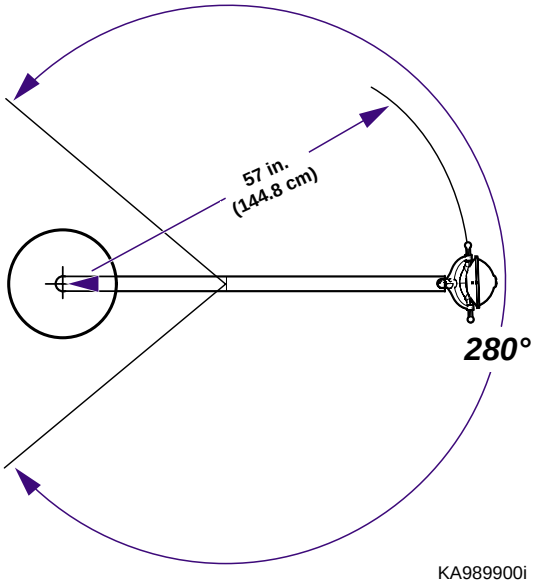



**Figure 3. Adjusting Transformer for Facilities w/230 VAC**

## DIMENSIONS / SWING RADIUS

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## SPECIFICATIONS

| Description | Data |
|---|---|
| **Electrical Requirements:** | 115 / 230 VAC ±10%, 50/60 Hz<br>1.2 / 0.6 amp, single phase |
| **Bulb:** | 24 VAC, 150 W Tungston Halogen |
| **Power to Bulb @ Maximum Intensity:** | 15.7 VAC, 5.5 amps |
| **Classifications:** | Class 1, Type B, Applied Part, Ordinary Equipment |
| **Certifications:** | |
| Midmark Corporation | ISO-9001 Certified |
| This product complies to: | UL2601-1<br>CAN/CSA 22.2, #601.1-M90 |
| | CE Certified<br>[Complies to the applicable revision of the MDD 93/42/EEC, Annex VII]<br>[Complies to the applicable requirements of EN60601-1, EN60601-1-2] |

## TRANSPORTATION / STORAGE CONDITIONS

- Ambient Temperature Range: ..... -22°F to 140°F (-30°C to 60°C )
- Relative Humidity ..... 10% to 90% (non-condensing)
- Atmospheric Pressure ..... 500hPa to 1060 hPa (0.49atm to 1.05atm)

## TORQUE SPECIFICATIONS

Torque specifications apply to hardware used on components unless otherwise noted in these installation instructions:

**Torque Specifications**

| Hardware Size | Torque Values |
|---|---|
| #6 | 11 to 21 inch / lbs. (1.2 to 2.3 N•m) |
| #8 | 20 to 30 inch / lbs. (2.2 to 3.3 N•m) |
| #10 | 32 to 42 inch / lbs. (3.6 to 4.8 N•m) |
| 1/4 inch | 75 to 85 inch / lbs. (8.5 to 9.6 N•m) |
| 5/16 inch | 18 to 22 ft. / lbs. (24.4 to 29.8 N•m) |
| 3/8 inch | 31 to 35 ft. / lbs. (42.0 to 47.5 N•m) |
| 1/2 inch | 50 to 60 ft. / lbs. (67.8 to 81.4 N•m) |

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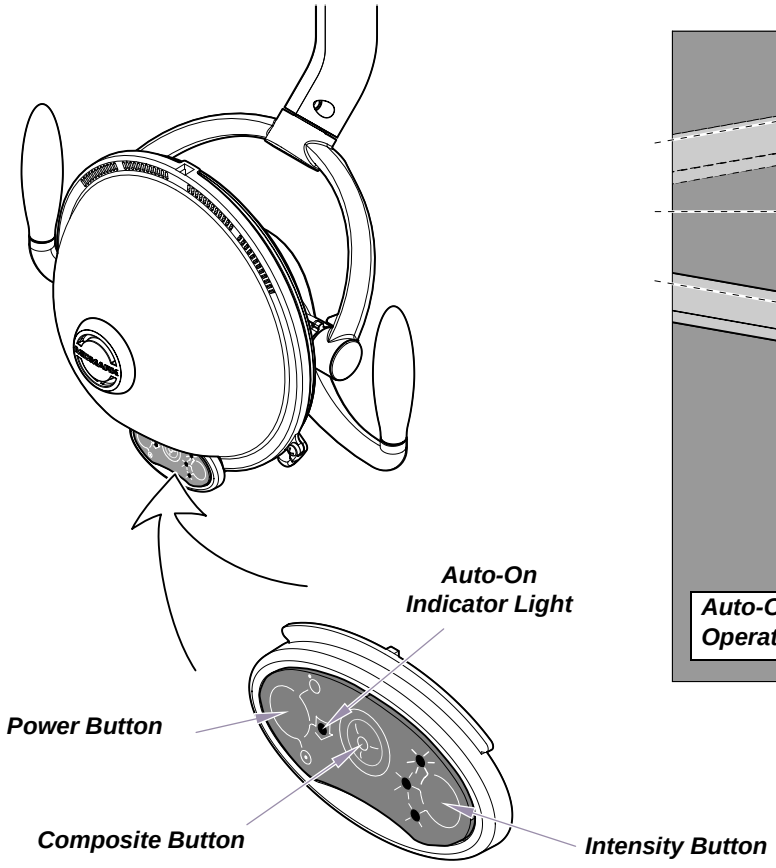
## INSTALLATION CHECKLIST

**EQUIPMENT ALERT**
Answering "NO" to any of the following questions indicates improper installation or a product malfunction. Check all connections, then refer to the Midmark Dental Light Service & Parts manual for corrective action if necessary.

| Yes | No | |
|---|---|---|
| | | With Master Switch ON (and light OFF)... *When **Power Button** is pressed once, does light illuminate?* |
| | | *When **Power Button** is pressed twice, does **Auto-On Indicator Light** illuminate?* |
| | | *With **Auto-On** function selected, does light illuminate when pulled dowward? (Refer to User's Guide for adjustment).* |
| | | *When **Power Button** is pressed three times, does light shut off?* |
| | | *When **Composite Button** is depressed, does light become noticeably dimmer?* |
| | | *Does **Intensity Button** adjust light beam to three settings (High, Medium, Low)?* |



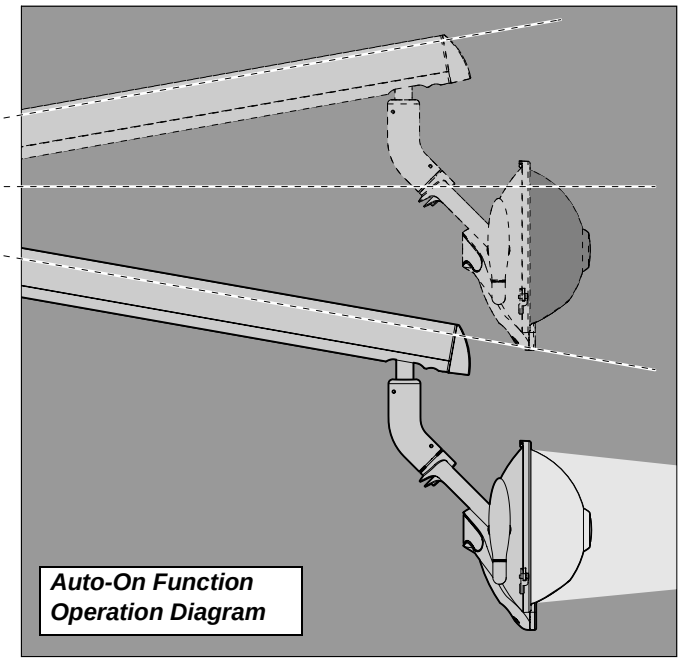




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**Figure 4. Operational Checks**

## INSTALLATION CHECKLIST - *continued*

**EQUIPMENT ALERT**
Answering "NO" to any of the following questions indicates an adjustment is necessary. Refer to the adjustment procedures in Figure 5.

| Yes | No | |
|---|---|---|
| ☐ | ☐ | *Does light move easily at all pivot points?* |
| ☐ | ☐ | *Does **Flex Arm** stay in position without "drifting"?* |
| ☐ | ☐ | *Does lighthead stay in position (at all pivot points) without "drifting"?* |

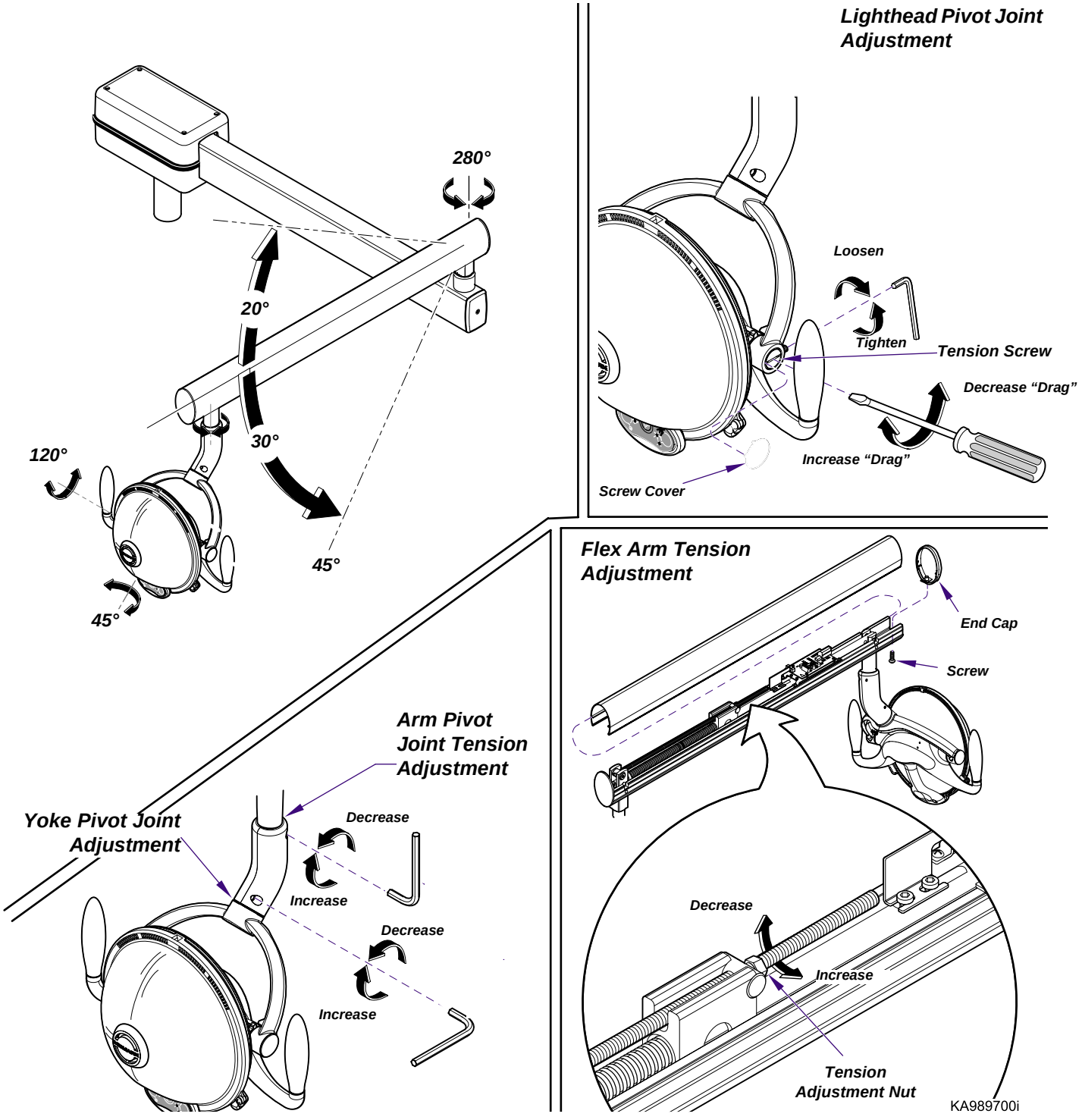


**Figure 5. Lighthead / Flex Arm Adjustment Procedures**